

# Executive Summary Report

## SMOG CHECK Statewide

### September 2017

#### 1. Testing Volume

|              | All Tests | Failed  | Percent (%) Failed |
|--------------|-----------|---------|--------------------|
| Initial Test | 925,007   | 93,793  | 10.14%             |
| Total        | 1,017,487 | 109,029 | 10.72%             |

#### 2. Certification Volume

|              | Certificates Issued | Percent (%) Certificates Issued | No Certificates Issued | Percent (%) No Certificates Issued |
|--------------|---------------------|---------------------------------|------------------------|------------------------------------|
| Initial Test | 823,987             | 89.08%                          | 101,020                | 10.92%                             |
| Total        | 900,436             | 88.50%                          | 117,051                | 11.50%                             |

#### 3. Certification Volume by Station Type\*

| Station Types            | Certificates Issued on Initial Test | Percent (%) Certificates Issued | No Certificates Issued on Initial Test | Percent (%) No Certificates Issued |
|--------------------------|-------------------------------------|---------------------------------|--|------------------------------------|
| STAR Test Only           | 423,071                             | 88.75%                          | 53,649                                 | 11.25%                             |
| Non-STAR Test Only       | 21,868                              | 92.01%                          | 1,899                                  | 7.99%                              |
| STAR Test and Repair     | 243,343                             | 88.47%                          | 31,706                                 | 11.53%                             |
| Non-STAR Test and Repair | 132,276                             | 92.04%                          | 11,447                                 | 7.96%                              |
| Total                    | 820,558                             | 89.26%                          | 98,701                                 | 10.74%                             |

\*Note: Excludes Basic area dealer, Fleets, and Referee stations

#### 4. Initial Test Failures by Failure Type

|                | OIS    |                    | BAR-97 |                    |
|----------------|--------|--------------------|--------|--------------------|
|                | Failed | Percent (%) Failed | Failed | Percent (%) Failed |
| All Emissions  | 0      | 0.00%              | 24,277 | 13.54%             |
| All Visual     | 9,747  | 1.31%              | 7,785  | 4.34%              |
| All Functional | 50,198 | 6.73%              | 20,599 | 11.46%             |
| OBDII          | 48,998 | 6.57%              | 11,831 | 6.60%              |
| Overall        | 56,785 | 7.62%              | 37,008 | 20.64%             |

#### 7. Initial Test Failures by Program Area

| Program Areas       | OIS           |        |                    | BAR-97        |        |                    |
|---------------------|---------------|--------|--------------------|---------------|--------|--------------------|
|                     | Initial Tests | Failed | Percent (%) Failed | Initial Tests | Failed | Percent (%) Failed |
| Enhanced            | 648,767       | 49,811 | 7.68%              | 142,178       | 30,193 | 21.24%             |
| Partial             | 33,321        | 2,458  | 7.38%              | 10,214        | 2,292  | 22.44%             |
| Basic               | 57,819        | 4,078  | 7.05%              | 21,045        | 2,917  | 13.86%             |
| Change of Ownership | 5,758         | 438    | 7.61%              | 1,676         | 413    | 24.64%             |
| No Program          | 0             | 0      | 0.00%              | 0             | 0      | 0.00%              |
| Unknown             | 0             | 0      | 0.00%              | 4,229         | 1,193  | 28.21%             |
| Total Program Area  | 745,665       | 56,785 | 7.62%              | 179,342       | 37,008 | 20.64%             |

#### 8. Initial Test Failures by Station Type

| Station Types                  | OIS           |        |                    | BAR-97        |        |                    |
|--------------------------------|---------------|--------|--------------------|---------------|--------|--------------------|
|                                | Initial Tests | Failed | Percent (%) Failed | Initial Tests | Failed | Percent (%) Failed |
| STAR Test Only                 | 373,062       | 30,587 | 8.20%              | 103,658       | 21,627 | 20.86%             |
| STAR Test Only Suspended       | 15            | 0      | 0.00%              | 0             | 0      | 0.00%              |
| Non-STAR Test Only             | 20,872        | 1,267  | 6.07%              | 2,895         | 503    | 17.37%             |
| STAR Test and Repair           | 220,520       | 17,621 | 7.99%              | 54,529        | 12,171 | 22.32%             |
| STAR Test and Repair Suspended | 0             | 0      | 0.00%              | 0             | 0      | 0.00%              |
| Non-STAR Test and Repair       | 126,334       | 6,984  | 5.53%              | 17,389        | 2,515  | 14.46%             |
| Test and Repair/Dealer         | 2,883         | 142    | 4.93%              | 152           | 8      | 5.26%              |
| Business Fleet                 | 223           | 8      | 3.59%              | 0             | 0      | 0.00%              |
| Permanent Fleet Registered     | 144           | 5      | 3.47%              | 0             | 0      | 0.00%              |
| Referee                        | 268           | 102    | 38.10%             | 181           | 90     | 49.72%             |
| Govt Fleet                     | 1,344         | 69     | 5.13%              | 538           | 94     | 17.47%             |
| Total                          | 745,665       | 56,785 | 7.62%              | 179,342       | 37,008 | 20.64%             |

#### 5. Initial Tests at All STAR Stations

| Vehicles     | Test and Repair Station Initial Tests | Test-Only Station Initial Tests | Test and Repair Station Certificates Issued | Test-Only Station Certificates Issued |
|--------------|---------------------------------------|---------------------------------|---|---------------------------------------|
| Directed     | 38,791                                | 85,983                          | 30,864                                      | 69,467                                |
| Non-Directed | 236,258                               | 390,737                         | 212,479                                     | 353,604                               |
| Total        | 275,049                               | 476,720                         | 243,343                                     | 423,071                               |

#### 6. Initial Tests at All Non-STAR Stations

| Vehicles     | Test and Repair Station Initial Tests | Test-Only Station Initial Tests | Test and Repair Station Certificates Issued | Test-Only Station Certificates Issued |
|--------------|---------------------------------------|---------------------------------|---|---------------------------------------|
| Directed     | 329                                   | 103                             | 220   | 59                                    |
| Non-Directed | 143,394                               | 23,664                          | 132,056                                     | 21,809                                |
| Total        | 143,723                               | 23,767                          | 132,276                                     | 21,868                                |

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#### 9. Number of Licensed Stations by Type/Privilege and Program Area

| Station Type                   | Basic      | Change of Ownership | Enhanced    | Partial    | Total       |
|--------------------------------|------------|---------------------|-------------|------------|-------------|
| STAR Test and Repair           | 131        | 64                  | 2,189       | 92         | 2,476       |
| STAR Test Only                 | 15         | 0                   | 1,880       | 28         | 1,923       |
| <i>STAR Sub-total</i>          | 146        | 64                  | 4,069       | 120        | 4,399       |
| Non-STAR Test and Repair       | 506        | 43                  | 2,239       | 245        | 3,033       |
| Non-STAR Test Only             | 17         | 4                   | 365         | 26         | 412         |
| <i>Non-STAR Sub-total</i>      | 523        | 47                  | 2,604       | 271        | 3,445       |
| Basic Area Dealer              | 67         | 0                   | 0           | 0          | 67          |
| Business Fleet                 | 0          | 0                   | 5           | 0          | 5           |
| Permanent Fleet Registered     | 3          | 1                   | 51          | 3          | 58          |
| Referee                        | 5          | 0                   | 27          | 0          | 32          |
| Government Fleet               | 41         | 3                   | 282         | 12         | 338         |
| Repair Only                    | 2          | 1                   | 46          | 0          | 49          |
| Unknown Type                   | 0          | 0                   | 1           | 0          | 1           |
| <i>Other Station Sub-total</i> | 118        | 5                   | 412         | 15         | 550         |
| <b>Total</b>                   | <b>787</b> | <b>116</b>          | <b>7085</b> | <b>406</b> | <b>8394</b> |

#### 10. Number of Stations Conducting Test by Equipment Type

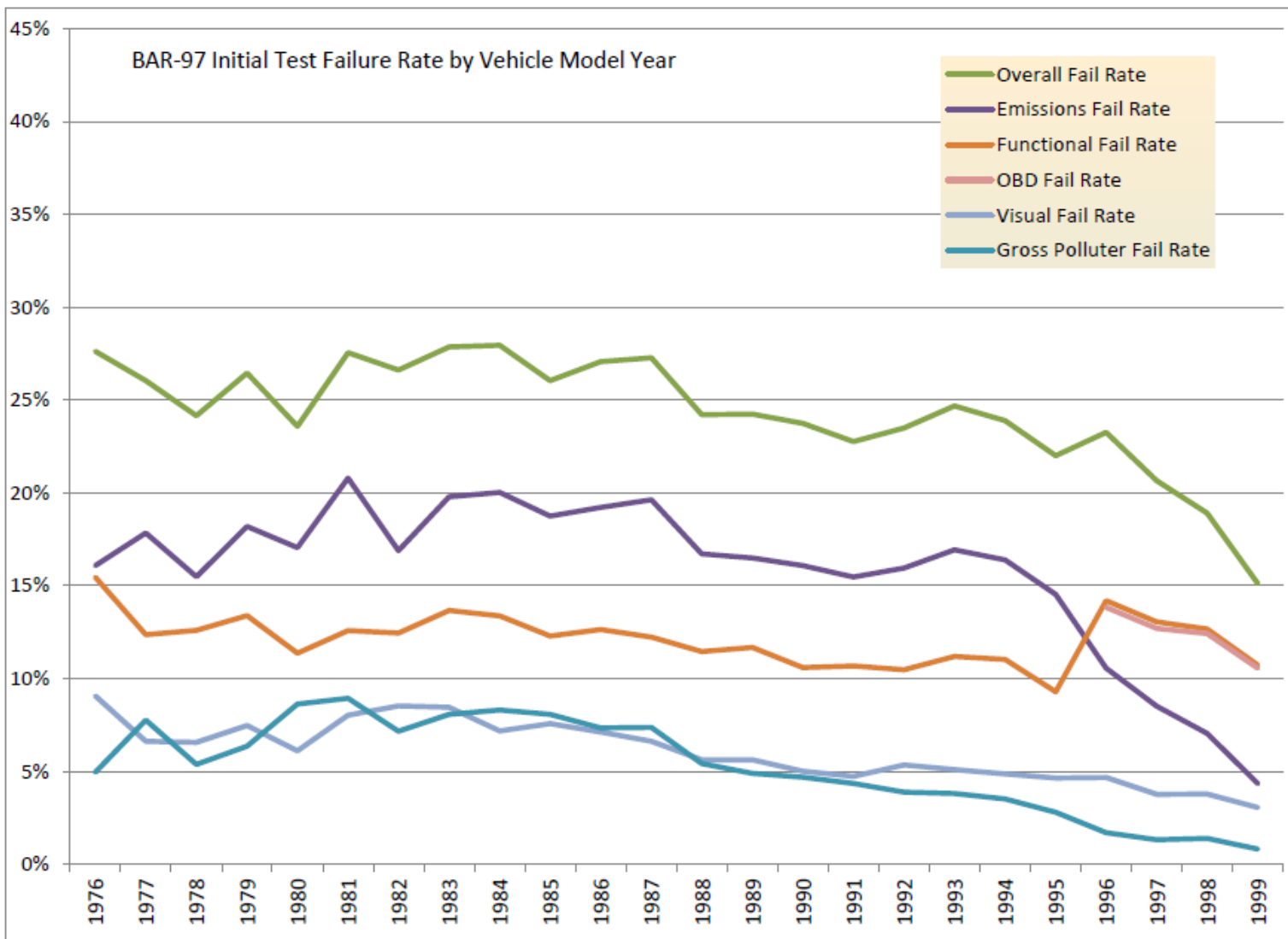
| Station Type                   | Equipment Type |              |              |
|--------------------------------|----------------|--------------|--------------|
|                                | BAR-97 Only    | OIS Only     | BAR-97 & OIS |
| STAR Test and Repair           | 1              | 285          | 2,124        |
| STAR Test Only                 | 3              | 64           | 1,778        |
| <i>STAR Sub-total</i>          | 4              | 349          | 3,902        |
| Non-STAR Test and Repair       | 4              | 1,674        | 707          |
| Non-STAR Test Only             | 0              | 93           | 119          |
| <i>Non-STAR Sub-total</i>      | 4              | 1,767        | 826          |
| Basic Area Dealer              | 0              | 43           | 23           |
| Business Fleet                 | 0              | 3            | 0            |
| Permanent Fleet Registered     | 0              | 11           | 0            |
| Referee                        | 0              | 1            | 30           |
| Government Fleet               | 15             | 101          | 57           |
| Unknown                        | 0              | 0            | 0            |
| <i>Other Station Sub-total</i> | 15             | 159          | 110          |
| <b>Total</b>                   | <b>23</b>      | <b>2,275</b> | <b>4,838</b> |

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#### 11. BAR-97 Initial Test Failure Rate by Vehicle Model Year



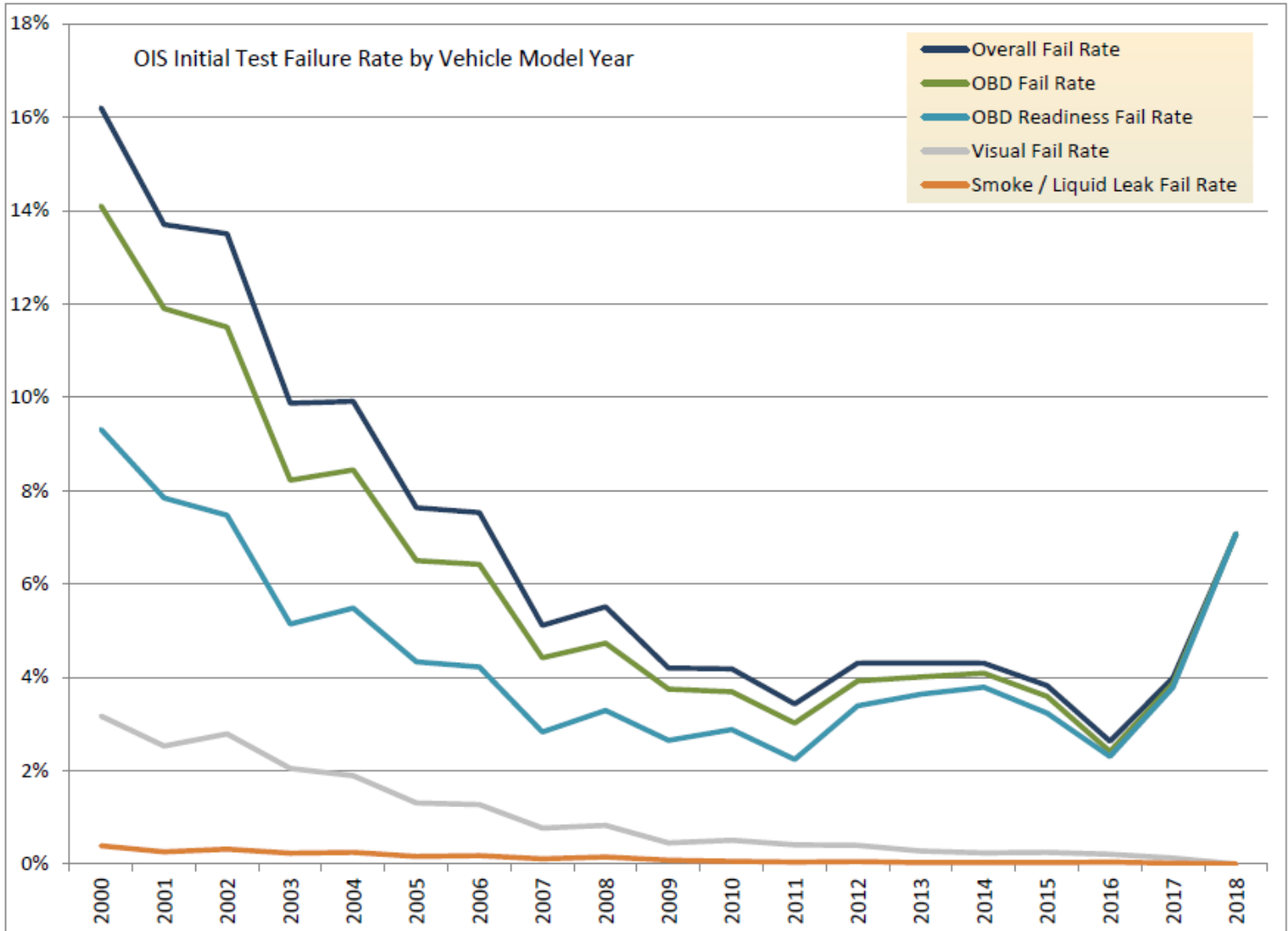
Note: Please see tabular data in Table 18 for BAR-97 tests conducted on other vehicle model years not shown in chart.

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#### 12. OIS Initial Test Failure Rate by Vehicle Model Year



Note: Please see tabular data in Table 19 for OIS tests conducted on other vehicle model years not shown in chart.

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#### 13. Referee Activity

|                               | OIS Certificates Issued | BAR-97 Certificates Issued |
|-------------------------------|-------------------------|----------------------------|
| Certificate of Compliance     | 379                     | 221                        |
| Certificate of Non Compliance | 0                       | 0                          |
| Parts Cost                    | 58                      | 18                         |
| Hardship Extensions           | 0                       | 0                          |
| Exempt Vehicle                | 1                       | 24                         |
| Exempted by Directive         | 10                      | 14                         |
| Parts Exemption               | 9                       | 0                          |
| Unknown Outcome               | 0                       | 0                          |
| Permanently Exempt Vehicle    | 0                       | 0                          |
| Temporarily Exempt Vehicle    | 0                       | 0                          |
| Total                         | 457                     | 277                        |

#### 14. Active Technicians

| License Type                     | Technician Count |
|----------------------------------|------------------|
| EA (Inspect and Repair Basic)    | 1                |
| EA (Inspect and Repair Enhanced) | 1                |
| EI (Repair Only)                 | 1                |
| EO (Inspect Only)                | 2,736            |
| EO + EI (Inspect and Repair)     | 3,959            |
| Total                            | 6,698            |

#### 15. Inspection Costs by Station and Test Type<sup>1</sup>

| Station Type             | BAR-97 Initial Test Count | Average BAR-97 Inspection Cost | OIS Initial Test Count | Average OIS Inspection Cost | Total Initial Test Count | Overall Average Inspection Cost |
|--------------------------|---------------------------|--------------------------------|------------------------|-----------------------------|--------------------------|---------------------------------|
| STAR Test and Repair     | 52,060                    | \$50.94                        | 218,697                | \$48.17                     | 270,757                  | \$48.70                         |
| STAR Test Only           | 98,409                    | \$47.47                        | 372,200                | \$49.43                     | 470,609                  | \$49.02                         |
| Non-STAR Test and Repair | 16,467                    | \$47.82                        | 123,627                | \$53.61                     | 140,094                  | \$52.93                         |
| Non-STAR Test Only       | 2,746                     | \$42.68                        | 20,668                 | \$56.18                     | 23,414                   | \$54.60                         |
| Test and Repair/Dealer   | 144                       | \$53.23                        | 2,720                  | \$58.15                     | 2,864                    | \$57.90                         |
| Total                    | 169,826                   | \$48.49                        | 737,912                | \$49.98                     | 907,738                  | \$49.70                         |

#### 16. Inspection Costs by Station and Equipment Type<sup>1</sup>

| Station Type             | BAR-97 Equipment Only     |                                | OIS Equipment Only     |                             | Both Equipment (BAR-97 + OIS) |                                |                        |                             |
|--------------------------|---------------------------|--------------------------------|------------------------|-----------------------------|-------------------------------|--------------------------------|------------------------|-----------------------------|
|                          | BAR-97 Initial Test Count | Average BAR-97 Inspection Cost | OIS Initial Test Count | Average OIS Inspection Cost | BAR-97 Initial Test Count     | Average BAR-97 Inspection Cost | OIS Initial Test Count | Average OIS Inspection Cost |
| STAR Test and Repair     | 2                         | \$29.99                        | 11,721                 | \$53.77                     | 52,058                        | \$50.94                        | 206,976                | \$47.85                     |
| STAR Test Only           | 1,681                     | \$17.80                        | 5,422                  | \$41.95                     | 96,728                        | \$47.98                        | 366,778                | \$49.54                     |
| Non-STAR Test and Repair | 7                         | \$57.64                        | 66,128                 | \$60.23                     | 16,460                        | \$47.82                        | 57,499                 | \$46.00                     |
| Non-STAR Test Only       | 0                         | \$0.00                         | 7,724                  | \$76.44                     | 2,746                         | \$42.68                        | 12,944                 | \$44.09                     |
| Test and Repair/Dealer   | 0                         | \$0.00                         | 1,731                  | \$58.89                     | 144                           | \$53.23                        | 989                    | \$56.85                     |
| Total                    | 1,690                     | \$17.98                        | 92,726                 | \$59.67                     | 168,136                       | \$48.80                        | 645,186                | \$48.58                     |

<sup>1</sup>Note: Smog Check Inspectors are asked to enter their inspections costs once per month. These costs may or may not include any discounts and may not reflect the actual inspection cost. Additionally, inspection costs entries in excess of \$99 cannot be entered into the BAR-97 software.

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#### 17. Repair Costs

| Repair Station Type                     | All Cost Ranges | Vehicles Repaired | Average Cost | (All Cost Ranges)<br>Vehicles Repaired | (All Cost Ranges)<br>Average Cost |
|---|-----------------|-------------------|--------------|--|-----------------------------------|
| STAR Repairs (Test and Repair, Non-CAP) | \$1-100         | 1,655             | \$46         | 5,980                                  | \$378                             |
|   | \$101-250       | 1,408             | \$174        |  |                                   |
|   | \$251-500       | 1,435             | \$362        |  |                                   |
|   | \$501-650       | 511               | \$570        |  |                                   |
|   | Over \$650      | 971               | \$1,161      |  |                                   |
| Non-STAR Repairs (Test and Repair)      | \$1-100         | 509               | \$47         | 1,713                                  | \$368                             |
|   | \$101-250       | 459               | \$168        |  |                                   |
|   | \$251-500       | 392               | \$362        |  |                                   |
|   | \$501-650       | 112               | \$572        |  |                                   |
|   | Over \$650      | 241               | \$1,345      |  |                                   |
| Repair Only                             | \$1-100         | 0                 | \$0          | 0                                      | \$0                               |
|   | \$101-250       | 0                 | \$0          |  |                                   |
|   | \$251-500       | 0                 | \$0          |  |                                   |
|   | \$501-650       | 0                 | \$0          |  |                                   |
|   | Over \$650      | 0                 | \$0          |  |                                   |
| CAP Repairs                             | \$1-100         | 1                 | \$0          | 255                                    | \$619                             |
|   | \$101-250       | 13                | \$208        |  |                                   |
|   | \$251-500       | 84                | \$390        |  |                                   |
|   | \$501-650       | 65                | \$585        |  |                                   |
|   | Over \$650      | 92                | \$918        |  |                                   |
| Total Repairs                           | \$1-100         | 2,165             | \$46         | 7,948                                  | \$384                             |
|   | \$101-250       | 1,880             | \$173        |  |                                   |
|   | \$251-500       | 1,911             | \$363        |  |                                   |
|   | \$501-650       | 688               | \$572        |  |                                   |
|   | Over \$650      | 1,304             | \$1,178      |  |                                   |

Note: Non-CAP repair costs are based solely on Smog Check Inspector entries. The majority of non-CAP repairs are not entered into the repair database and therefore not included in this summary.

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### 18. Tabular Data for BAR-97 Initial Tests by Vehicle Model Year

| Model Year      | Initial Tests | Failed Overall | Percent (%) Failed Overall | Percent (%) Failed Emissions | Percent (%) Failed Gross Polluters | Percent (%) Failed Functional | Percent (%) Failed Visual | Percent (%) Failed OBDII |
|-----------------|---------------|----------------|----------------------------|------------------------------|------------------------------------|-------------------------------|---------------------------|--------------------------|
| 1976            | 485           | 134            | 27.63%                     | 16.08%                       | 4.95%                              | 15.46%                        | 9.07%                     | NA                       |
| 1977            | 695           | 181            | 26.04%                     | 17.84%                       | 7.77%                              | 12.37%                        | 6.62%                     | NA                       |
| 1978            | 762           | 184            | 24.15%                     | 15.49%                       | 5.38%                              | 12.60%                        | 6.56%                     | NA                       |
| 1979            | 896           | 237            | 26.45%                     | 18.19%                       | 6.36%                              | 13.39%                        | 7.48%                     | NA                       |
| 1980            | 475           | 112            | 23.58%                     | 17.05%                       | 8.63%                              | 11.37%                        | 6.11%                     | NA                       |
| 1981            | 548           | 151            | 27.55%                     | 20.80%                       | 8.94%                              | 12.59%                        | 8.03%                     | NA                       |
| 1982            | 586           | 156            | 26.62%                     | 16.89%                       | 7.17%                              | 12.46%                        | 8.53%                     | NA                       |
| 1983            | 768           | 214            | 27.86%                     | 19.79%                       | 8.07%                              | 13.67%                        | 8.46%                     | NA                       |
| 1984            | 1,324         | 370            | 27.95%                     | 20.02%                       | 8.31%                              | 13.37%                        | 7.18%                     | NA                       |
| 1985            | 1,797         | 468            | 26.04%                     | 18.75%                       | 8.07%                              | 12.30%                        | 7.57%                     | NA                       |
| 1986            | 2,752         | 745            | 27.07%                     | 19.22%                       | 7.34%                              | 12.65%                        | 7.12%                     | NA                       |
| 1987            | 2,837         | 774            | 27.28%                     | 19.63%                       | 7.37%                              | 12.23%                        | 6.63%                     | NA                       |
| 1988            | 3,394         | 822            | 24.22%                     | 16.71%                       | 5.42%                              | 11.46%                        | 5.63%                     | NA                       |
| 1989            | 4,725         | 1,146          | 24.25%                     | 16.49%                       | 4.89%                              | 11.68%                        | 5.63%                     | NA                       |
| 1990            | 5,328         | 1,265          | 23.74%                     | 16.08%                       | 4.69%                              | 10.60%                        | 5.01%                     | NA                       |
| 1991            | 7,058         | 1,607          | 22.77%                     | 15.47%                       | 4.35%                              | 10.68%                        | 4.73%                     | NA                       |
| 1992            | 6,765         | 1,590          | 23.50%                     | 15.96%                       | 3.89%                              | 10.47%                        | 5.35%                     | NA                       |
| 1993            | 9,119         | 2,251          | 24.68%                     | 16.94%                       | 3.81%                              | 11.20%                        | 5.10%                     | NA                       |
| 1994            | 10,845        | 2,592          | 23.90%                     | 16.39%                       | 3.52%                              | 11.03%                        | 4.87%                     | NA                       |
| 1995            | 16,790        | 3,695          | 22.01%                     | 14.53%                       | 2.80%                              | 9.29%                         | 4.65%                     | NA                       |
| 1996            | 13,432        | 3,126          | 23.27%                     | 10.56%                       | 1.70%                              | 14.20%                        | 4.68%                     | 13.84%                   |
| 1997            | 24,564        | 5,073          | 20.65%                     | 8.52%                        | 1.32%                              | 13.06%                        | 3.77%                     | 12.71%                   |
| 1998            | 23,465        | 4,439          | 18.92%                     | 7.05%                        | 1.39%                              | 12.68%                        | 3.78%                     | 12.43%                   |
| 1999            | 36,151        | 5,465          | 15.12%                     | 4.35%                        | 0.82%                              | 10.72%                        | 3.06%                     | 10.56%                   |
| 2000            | 344           | 48             | 13.95%                     | 8.14%                        | 2.62%                              | 8.72%                         | 1.45%                     | 8.72%                    |
| 2001            | 363           | 37             | 10.19%                     | 5.23%                        | 1.93%                              | 5.51%                         | 1.38%                     | 5.23%                    |
| 2002            | 272           | 25             | 9.19%                      | 5.51%                        | 0.37%                              | 6.25%                         | 1.10%                     | 6.25%                    |
| 2003            | 420           | 28             | 6.67%                      | 2.86%                        | 0.71%                              | 3.81%                         | 1.19%                     | 3.81%                    |
| 2004            | 293           | 13             | 4.44%                      | 2.39%                        | 0.68%                              | 2.73%                         | 1.02%                     | 2.73%                    |
| 2005            | 401           | 20             | 4.99%                      | 2.74%                        | 1.25%                              | 1.75%                         | 1.25%                     | 1.75%                    |
| 2006            | 293           | 6              | 2.05%                      | 1.71%                        | 0.34%                              | 0.34%                         | 0.00%                     | 0.34%                    |
| 2007            | 360           | 20             | 5.56%                      | 2.50%                        | 0.83%                              | 3.33%                         | 1.11%                     | 3.33%                    |
| 2008            | 242           | 4              | 1.65%                      | 0.41%                        | 0.00%                              | 1.24%                         | 0.00%                     | 1.24%                    |
| 2009            | 121           | 1              | 0.83%                      | 0.00%                        | 0.00%                              | 0.83%                         | 0.00%                     | 0.83%                    |
| 2010            | 58            | 0              | 0.00%                      | 0.00%                        | 0.00%                              | 0.00%                         | 0.00%                     | 0.00%                    |
| 2011            | 252           | 2              | 0.79%                      | 0.40%                        | 0.40%                              | 0.40%                         | 0.40%                     | 0.40%                    |
| 2012            | 71            | 2              | 2.82%                      | 2.82%                        | 0.00%                              | 1.41%                         | 0.00%                     | 1.41%                    |
| 2013            | 31            | 0              | 0.00%                      | 0.00%                        | 0.00%                              | 0.00%                         | 0.00%                     | 0.00%                    |
| 2014            | 34            | 0              | 0.00%                      | 0.00%                        | 0.00%                              | 0.00%                         | 0.00%                     | 0.00%                    |
| 2015            | 31            | 0              | 0.00%                      | 0.00%                        | 0.00%                              | 0.00%                         | 0.00%                     | 0.00%                    |
| 2016            | 41            | 0              | 0.00%                      | 0.00%                        | 0.00%                              | 0.00%                         | 0.00%                     | 0.00%                    |
| 2017            | 116           | 4              | 3.45%                      | 0.86%                        | 0.00%                              | 0.86%                         | 2.59%                     | 0.86%                    |
| 2018            | 35            | 1              | 2.86%                      | 0.00%                        | 0.00%                              | 0.00%                         | 2.86%                     | 0.00%                    |
| Other           | 3             | 0              | 0.00%                      | 0.00%                        | 0.00%                              | 0.00%                         | 0.00%                     | 0.00%                    |
| All Model Years | 179,342       | 37,008         | 20.64%                     | 10.93%                       | 2.61%                              | 11.49%                        | 4.34%                     | 6.60%                    |

Note: Some model year 1975 and older vehicles required a Referee inspection (for example, engine changes). Vehicle model years 2000 and newer were tested on the BAR-97 because they may not be compatible with the OIS test (for example, a non-OBD-II certified vehicle).

See Table 19 for Smog Check requirements.

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#### 19. Tabular Data for OIS Initial Tests by Vehicle Model Year

| Model Year      | Initial Tests | Failed Overall | Percent (%) Failed Overall | Percent (%) Failed Functional | Percent (%) Failed Visual | Percent (%) Failed OBDII | Percent (%) Failed OBDII Readiness | Percent (%) Failed Smoke and/or Liquid Leak |
|-----------------|---------------|----------------|----------------------------|-------------------------------|---------------------------|--------------------------|------------------------------------|---|
| 1996            | 6             | 1              | 16.70%                     | 16.70%                        | 0.00%                     | 16.70%                   | 16.70%                             | 0.00%                                       |
| 1997            | 9             | 0              | 0.00%                      | 0.00%                         | 0.00%                     | 0.00%                    | 0.00%                              | 0.00%                                       |
| 1998            | 199           | 34             | 17.10%                     | 16.60%                        | 2.51%                     | 14.60%                   | 7.04%                              | 2.01%                                       |
| 1999            | 835           | 120            | 14.40%                     | 12.30%                        | 2.28%                     | 12.10%                   | 7.19%                              | 0.24%                                       |
| 2000            | 34,752        | 5,636          | 16.20%                     | 14.50%                        | 3.17%                     | 14.10%                   | 9.31%                              | 0.39%                                       |
| 2001            | 61,830        | 8,444          | 13.70%                     | 12.10%                        | 2.53%                     | 11.90%                   | 7.84%                              | 0.26%                                       |
| 2002            | 38,897        | 5,250          | 13.50%                     | 11.80%                        | 2.79%                     | 11.50%                   | 7.47%                              | 0.32%                                       |
| 2003            | 78,486        | 7,746          | 9.87%                      | 8.45%                         | 2.05%                     | 8.22%                    | 5.14%                              | 0.23%                                       |
| 2004            | 42,483        | 4,208          | 9.91%                      | 8.69%                         | 1.89%                     | 8.44%                    | 5.48%                              | 0.25%                                       |
| 2005            | 83,567        | 6,375          | 7.63%                      | 6.67%                         | 1.31%                     | 6.50%                    | 4.33%                              | 0.16%                                       |
| 2006            | 44,395        | 3,342          | 7.53%                      | 6.60%                         | 1.27%                     | 6.42%                    | 4.22%                              | 0.18%                                       |
| 2007            | 96,527        | 4,933          | 5.11%                      | 4.53%                         | 0.77%                     | 4.42%                    | 2.83%                              | 0.11%                                       |
| 2008            | 32,707        | 1,801          | 5.51%                      | 4.88%                         | 0.83%                     | 4.73%                    | 3.29%                              | 0.15%                                       |
| 2009            | 56,329        | 2,366          | 4.20%                      | 3.83%                         | 0.45%                     | 3.75%                    | 2.65%                              | 0.08%                                       |
| 2010            | 20,167        | 842            | 4.18%                      | 3.75%                         | 0.51%                     | 3.69%                    | 2.88%                              | 0.06%                                       |
| 2011            | 80,082        | 2,744          | 3.43%                      | 3.06%                         | 0.41%                     | 3.02%                    | 2.24%                              | 0.04%                                       |
| 2012            | 14,661        | 630            | 4.30%                      | 3.97%                         | 0.40%                     | 3.92%                    | 3.39%                              | 0.05%                                       |
| 2013            | 17,288        | 745            | 4.31%                      | 4.05%                         | 0.28%                     | 4.01%                    | 3.64%                              | 0.03%                                       |
| 2014            | 12,520        | 538            | 4.30%                      | 4.12%                         | 0.24%                     | 4.09%                    | 3.79%                              | 0.03%                                       |
| 2015            | 12,619        | 482            | 3.82%                      | 3.62%                         | 0.25%                     | 3.59%                    | 3.23%                              | 0.03%                                       |
| 2016            | 10,977        | 289            | 2.63%                      | 2.44%                         | 0.21%                     | 2.41%                    | 2.30%                              | 0.04%                                       |
| 2017            | 6,113         | 244            | 3.99%                      | 3.88%                         | 0.13%                     | 3.86%                    | 3.78%                              | 0.02%                                       |
| 2018            | 212           | 15             | 7.08%                      | 7.08%                         | 0.00%                     | 7.08%                    | 7.08%                              | 0.00%                                       |
| Other           | 4             | 0              | 0.00%                      | 0.00%                         | 0.00%                     | 0.00%                    | 0.00%                              | 0.00%                                       |
| All Model Years | 745,665       | 56,785         | 7.62%                      | 6.73%                         | 1.31%                     | 6.57%                    | 4.44%                              | 0.16%                                       |

Note: Some model year 1999 and older vehicles required a Referee inspection, were tested at Beta stations, or were 1998/1999 model year diesels.

See Table 20 for Smog Check requirements.



# Executive Summary Report

## SMOG CHECK Statewide

### September 2017

#### 20. Smog Check Requirements by Vehicle Type

| SMOG CHECK REQUIREMENTS  |  |                   |                   |                     |          |             |
|--|--|-------------------|-------------------|---------------------|----------|-------------|
| BY VEHICLE TYPE  |  |                   |                   |                     |          |             |
| Fuel Type  | Model-Year                               | GVWR <sup>1</sup> | OBD II Equipped ? | Smog Check Required |          |             |
|  |  |                   |                   | None                | OIS Test | BAR-97 Test |
| All <sup>2</sup><br>(except Diesel)  | Four model-years and newer <sup>3</sup>  | All               | All               | X                   |          |             |
|  | Fifth and sixth model-years <sup>4</sup> | All               | All               | X                   |          |             |
|  | 1975 and earlier                         | All               | All               | X                   |          |             |
| Gasoline & Flex Fuel<br>(Methanol or Ethanol)                                  | 1976-1999                                | All               | All               |                     |          | X           |
|  | 2000 and newer                           | 14,000 and less   | Yes <sup>5</sup>  |                     | X        |             |
|  |  |                   | No                |                     |          | X           |
|  |  | Over 14,000       | All               |                     |          | X           |
| Hybrid   | 2000 and newer                           | 14,000 and less   | All               |                     | X        |             |
| Dedicated Propane<br>and Natural Gas<br>(CNG, LNG, or LPG)                     | 1976-1999                                | 14,000 and less   | All               |                     |          | X           |
|  |  | Over 14,000       | All               | X                   |          |             |
|  | 2000 and newer                           | 14,000 and less   | Yes               |                     | X        |             |
|  |  |                   | No                |                     |          | X           |
|  |  | Over 14,000       | All               | X                   |          |             |
| Diesel   | 1976-1997                                | All               | All               | X                   |          |             |
|  | 1998 and newer                           | 14,000 and less   | All               |                     | X        |             |
|  |  | Over 14,000       | All               | X <sup>6</sup>      |          |             |
| Full Electric Powered  | All                                      | All               | All               | X                   |          |             |
| Motorcycle   | All                                      | All               | All               | X                   |          |             |
| Other Vehicles: Two Cylinder Engine, Two-stroke Engine, Off-highway Registered | All                                      | All               | All               | X                   |          |             |

<sup>1</sup> Gross vehicle weight rating

<sup>2</sup> Includes gasoline, flex fuel, hybrid, dedicated propane, and natural gas vehicles. A Smog Check is required for all out-of-state 1976 model-year and newer vehicles registering in California for the first time and other initial registration events determined by the Department of Motor Vehicles.

<sup>3</sup> Vehicles four model-years and newer are not subject to biennial (every other year) or change-of-ownership Smog Checks. Add four to the model-year of a vehicle to determine the first year a vehicle will be subject to a change-of-ownership Smog Check. For example, a 2010 model-year vehicle will be first subject a change-of-ownership Smog Check in 2014 (2010+4=2014).

<sup>4</sup> Fifth and sixth model-year vehicles are not subject to biennial Smog Checks. However, a change-of-ownership Smog Check is required. Add six to the model-year of a vehicle to determine the first year a vehicle will be subject to a biennial Smog Check. For example, a 2010 model-year vehicle will be first subject to a biennial Smog Check in 2016 (2010+6=2016).

<sup>5</sup> In the future, BAR may identify some vehicles that have GVWR of 14,000 and less or that have problematic OBD II systems that may require the BAR-97 test.

<sup>6</sup> Fleet vehicles are subject to the ARB Periodic Smoke Inspection Program (PSIP).